## CLAIMS

- 1. A method for countering spam that disguises characters within an electronic message, said method comprising the steps of:
  - locating portions of the electronic message where the difference between foreground color and background color is negligible;
  - deleting from the electronic message foreground characters from said portions, to form a redacted electronic message; and
  - forwarding the redacted electronic message to a spam filter.
- 2. The method of claim 1 further comprising setting a negligibility threshold such that, when the difference between foreground color and background color is negligible for a certain portion of the electronic message, said portion is invisible or nearly invisible to a typical human viewer of the electronic message.
- 3. The method of claim 1 wherein said locating step comprises comparing hue, saturation, and brightness of the foreground and background colors.
- 4. The method of claim 3 wherein information giving red, green, and blue components of foreground and background colors is

given in the electronic message, and said information is converted into hue, satúration, and brightness values.

- 5. The method of claim 1 wherein said locating step comprises determining when at least one of the foreground color and the background color is a gray-scale color.
- 6. The method of claim 5 wherein, when at least one of said foreground color and background color is a gray-scale color, said locating step comprises comparing saturation and brightness values of the foreground color and the background color.
- 7. The method of claim 6 wherein the difference between the foreground color and the background color is deemed to be negligible when the difference in saturation between foreground and background is less than 5%, and the difference in brightness between foreground and background is less than 4%.
- 8. The method of claim 6 wherein the difference between the foreground color and the background color is deemed to be negligible when the difference in saturation between foreground and background is less than 3%, and the difference in brightness between foreground and background is less than 2%.
- 9. The method of claim 1 wherein neither the foreground color nor the background color is a gray-scale color, and the locating step comprises comparing hue, saturation, and brightness of the foreground and background colors.

10. The method of claim 9 wherein the difference between the foreground color and the background color is deemed to be negligible when the difference in hue between foreground and background is less than 6 degrees, and the combined difference between the saturation and brightness values of the foreground and background is less than 14%.

11. The method of claim 9 wherein the difference between the foreground color and the background color is deemed to be negligible when the difference in hue between foreground and background is less than 4 degrees, and the combined difference in saturation and brightness values of the foreground and background is less than 12%.

- 12. The method of claim 1 wherein the electronic message comprises e-mail, and the locating step comprises using a HTML parser.
- 13. The method of claim 1 wherein the locating step comprises using a color comparison module.
- 14. The method of claim 1 wherein the spam filter is responsive to characters within the electronic message.
- 15. The method of claim 1 wherein the electronic message is a message from the group of messages comprising e-mail, instant messages, chat room messages, newsgroup messages, wireless messages, Morse code messages, SMS messages, MMS messages, EMS messages, text pager messages, and graphics pager messages.

16. A computer-readable medium containing computer program instructions for countering spam that disguises characters within an electronic message, said computer program instructions performing the steps of:

locating portions of the electronic message where the difference between foreground color and background color is negligible;

deleting from the electronic message foreground characters from said portions, to form a redacted electronic message; and

forwarding the redacted electronic message to a spam filter.

- 17. The computer-readable medium of claim 16 wherein the locating step comprises comparing hue, saturation, and brightness of the foreground and background colors.
- 18. Apparatus for countering spam in an electronic message, said apparatus comprising:

means for locating portions of the electronic message where the difference between foreground color and background color is negligible;

coupled to the locating means, means for deleting from the electronic message foreground characters from said portions; and

coupled to the deleting means, a spam filter.

ı	ı
2	
3	
4	
5	
6	
7	
8	-
9 .	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	

- 19. The apparatus of claim 18 wherein the locating means comprises a color comparison module.
- 20. The apparatus of claim 18 wherein the deleting means comprises a parser.